

Memorandum

To: Stephanie Vaughn (USEPA)

Elizabeth Buckrucker (USACE)

From: Sharon Budney (CDM)

George Molnar (CDM)

Date: April 5, 2010

Re: Status Report (March 2010)

CPG Oversight of Physical Water Column Monitoring

Lower Passaic River Restoration Project

On behalf of the United States Environmental Protection Agency (EPA) and the United States Army Corps of Engineers (USACE), Kansas City District, CDM Federal Programs Corporation (CDM) is providing oversight of the Cooperating Parties Group (CPG) remedial investigation/feasibility study (RI/FS) field activities associated with physical water column monitoring (PWCM), and the collection of physical data in the Lower Passaic River (LPR).

CDM oversight activities were conducted March 22 through March 25, 2010. Oversight included the observation of instrumentation deployment, and collection of samples in the LPR in support of the CPG PWCM study. In addition, CDM also collected split samples at select locations. All activities were conducted in accordance with the CPG Quality Assurance Project Plan (QAPP)/Field Sampling Plan Addendum, Remedial Investigation Water Column Monitoring/Physical Data Collection for the Lower Passaic River, Newark Bay and Wet Weather Monitoring, Lower Passaic River Restoration Project, Revision 4, March 2010.

Photographs of field activities can be found in Attachment 1. Copies of the logbook notes can be found in Attachment 2.

Instrument Deployment at Locations below Dundee Dam (March 22 through 24, 2010)

The following summarizes oversight observations of instrument deployment conducted March 22 through March 24, 2010 at river miles (RM) 1.4, 4.2, 6.7, 10.2, and 13.5. Prior to deploying moored instruments, CPG contractor Ocean Surveys Incorporated (OSI) lowered a conductivity, temperature, and depth/optical backscatter (CTD/OBS) meter to obtain a profile of real-time measurements through the water column. Afterwards, an instrument array consisting of a CTD/OBS and an acoustic Doppler current profile (ADCP) meter was deployed on the river bottom. Attached to the bottom array was a buoy which suspended a CTD/OBS instrument three feet below river surface. All instruments were anchored, and deployed in the correct locations.

After all instruments were deployed crews waited approximately 15 to 20 minutes to allow any suspended sediments stirred up during deployment to settle or be swept away.

Afterwards, surface water samples for suspended solids concentration (SSC) were collected three feet above river bottom, and three below river surface. Samples were collected by CPG contractor AECOM . Prior to sample collection a CTD/OBS meter was lowered to obtain a profile of real-time measurements through the water column. Real-time readings were also measured during sampling via pump and tubing which were attached to the CTD/OBS meter.

March 22, 2010: CDM oversight staff observed the deployment of CTD/OBS and ADCP moorings/buoys and collection of SSC samples at RMs 1.4 and 4.2.

March 23, 2010: CDM oversight staff observed the deployment of CTD/OBS and ADCP moorings/buoys and collection of SSC samples at RMs 6.7 and 10.2.

March 24, 2010: CDM oversight staff observed the deployment of CTD/OBS and ADCP moorings/buoys and collection of SSC samples at RM 13.5.

All buoy-mounted instruments were suspended approximately three feet below river surface. The coordinates of instrument arrays and approximate depths of bottom mooring instruments positioned within the water column are as follow:

RM 1.4 - 691228.80 Northing/597991.01 Easting; Depth of 19 feet

RM 4.2 - 692307.24 Northing/588243.0 Easting; Depth of 15.8 feet

RM 6.7 - 702834.80 Northing/586142.48 Easting; Depth of 10.5 feet

RM 10.2 - 719746.20 Northing/592106.37 Easting; Depth of 14.2 feet

RM 13.5 – 734288.0 Northing/595060.0 Easting; Depth of 13.5 feet

Instrument Deployment and ADCP Transect Survey above Dundee Dam (March 24)

The following summarizes oversight observations of OBS meter deployment, ADCP transect survey, and collection of surface water samples above Dundee Dam (RM 17.5). Per the CPG QAPP, only an OBS meter is deployed at this location which is affixed to a buoy suspending it three feet below river surface. River depth at this location was approximately 8.5 feet.

March 24, 2010: CDM oversight staff observed the deployment of an OBS meter, and ADCP transect survey above Dundee Dam. During this one-time mobilization (for the month of March) at this location, surface water samples were also collected. In addition, CDM collected split samples from the location collocated with the buoy-mounted OBS meter.

At arrival, OSI maneuvered to the location of the buoy-mounted OBS meter prior to deployment, and lowered a CTD/OBS meter to obtain a profile of real-time measurements through the water column. The buoy-mounted OBS meter was then deployed. Location coordinates are as follow:

RM 17.5 above Dundee Dam - 747508.48 Northing/594488.23 Easting

After deployment of the OBS meter, a boat-based ADCP transect survey was conducted. The survey was conducted within the area of four predetermined locations (P1 through P4) moving across the river channel. Once the survey was finished, crews lowered a CTD/OBS

meter to obtain a profile of real-time measurements through the water column at each location. This was followed by the collection of surface water from three feet below river surface via pump and tubing mounted to the instrument. Samples were collected for SSC, dissolved organic carbon (DOC), and particulate organic carbon (POC) analysis. In addition, a sample for SSC, DOC, and POC analysis was also collected from three feet above river bottom at Location P2 which was collocated with the buoy-mounted OBS meter. Samples were collected by an AECOM representative.

CDM's Final QAPP for PWCM oversight activities indicated the CPG would collect only one sample from three feet below river surface at location P2. Thus, CDM proposed that one split sample be collected at this location. Since AECOM also collected a sample from three feet above river bottom, CDM also collected an additional split sample. A Field Change Request Form detailing this change can be found in Attachment 3.

CDM oversight staff collected split samples from both depths for SSC, DOC, and POC analysis at Location P2. Samples were collected at the same time as those collected by AECOM via "Y" junction at the end of tubing which was connected to the pump. Split samples and corresponding CPG samples are presented in Table 1. Split samples were delivered via hand courier to the EPA Division of Environmental Science and Assessment (DESA) laboratory for analysis. Copies of CDM's signed chain of custodies can be found in Attachment 4.

ADCP Transect Surveys at Locations below Dundee Dam (March 25)

The following summarizes oversight observations of ADCP transect surveys and the collection of surface water samples at locations (RMs 1.4, 4.2, 6.7, 10.2, and 13.5) below Dundee Dam.

March 25, 2010: CDM oversight staff observed boat-based ADCP transect surveys at RMs 1.4, 4.2, 6.7, 10.2, and 13.5. Transect surveys were conducted during ebb and flood tides. Each survey was conducted in the area of three predetermined locations (P1 through P3) moving across the river channel. Once each survey was finished, crews lowered a CTD/OBS meter to obtain a profile of real-time measurements through the water column. This was conducted at each location followed by the collection of surface water from three feet below river surface, and three feet above river bottom via pump and tubing mounted to the instrument. Samples were collected for SSC, DOC, and POC analysis from locations collocated with moored instruments, and from locations furthest away. These locations consisted of P1 and P3 at every RM. No samples were collected for DOC and POC analysis at location P2 at any RM.

CDM oversight staff collected split samples during each transect surveys (ebb and flood tide) from both depths at locations collocated with moored instruments. Samples were collected for SSC, DOC, and POC analysis, and were collected at the same time as those collected by AECOM via "Y" junction at the end of tubing which was connected to the pump. Split samples and corresponding CPG samples are presented in Table 1. Split samples were delivered via hand courier to the EPA DESA laboratory for analysis. Copies of CDM's signed chain of custodies can be found in Attachment 4.

Table 1 Cooperating Parties Group and CDM Split Sample Identification March 2010 Physical Water Column Monitoring Oversight Lower Passaic River Restoration Project

Lower Passaic River, New Jersey

River	Mooring	CPG Sample ID	CDM Split Sample ID	QC Samples	Tide	Collection	Analysis
Mile	Location	Ci O Sample ib	CDM Opin Sample ID	QC Samples	Event	Date	_
1.4	P3	10A-E03-T014-P3-AS	10A-E03-T014-P3-AS-CDM		flood	3/25/2010	SSC, DOC, POC
		10A-E03-T014-P3-BS	10A-E03-T014-P3-BS-CDM		flood	3/25/2010	SSC, DOC, POC
		10A-E04-T014-P3-AS	10A-E04-T014-P3-AS-CDM		ebb	3/25/2010	SSC, DOC, POC
		10A-E04-T014-P3-BS	10A-E04-T014-P3-BS-CDM		ebb	3/25/2010	SSC, DOC, POC
4.2	P1	10A-E03-T042-P1-AS	10A-E03-T042-P1-AS-CDM		flood	3/25/2010	SSC, DOC, POC
		10A-E03-T042-P1-BS	10A-E03-T042-P1-BS-CDM		flood	3/25/2010	SSC, DOC, POC
		10A-E04-T042-P1-AS	10A-E04-T042-P1-AS-CDM		ebb	3/25/2010	SSC, DOC, POC
		10A-E04-T042-P1-BS	10A-E04-T042-P1-BS-CDM		ebb	3/25/2010	SSC, DOC, POC
6.7	P3	10A-E03-T067-P3-AS	10A-E03-T067-P3-AS-CDM		flood	3/25/2010	SSC, DOC, POC
		10A-E03-T067-P3-BS	10A-E03-T067-P3-BS-CDM		flood	3/25/2010	SSC, DOC, POC
		10A-E04-T067-P3-AS	10A-E04-T067-P3-AS-CDM		ebb	3/25/2010	SSC, DOC, POC
		10A-E04-T067-P3-BS	10A-E04-T067-P3-BS-CDM		ebb	3/25/2010	SSC, DOC, POC
10.2	P1	10A-E03-T102-P1-AS	10A-E03-T102-P1-AS-CDM		flood	3/25/2010	SSC, DOC, POC
		10A-E03-T102-P1-BS	10A-E03-T102-P1-BS-CDM		flood	3/25/2010	SSC, DOC, POC
		10A-E04-T102-P1-AS	10A-E04-T102-P1-AS-CDM		ebb	3/25/2010	SSC, DOC, POC
		10A-E04-T102-P1-BS	10A-E04-T102-P1-BS-CDM		ebb	3/25/2010	SSC, DOC, POC
						•	
13.5	P3	10A-E03-T135-P3-AS	10A-E03-T135-P3-AS-CDM		flood	3/25/2010	SSC, DOC, POC
		10A-E03-T135-P3-BS	10A-E03-T135-P3-BS-CDM		flood	3/25/2010	SSC, DOC, POC
		10A-E04-T135-P3-AS	10A-E04-T135-P3-AS-CDM		ebb	3/25/2010	SSC, DOC, POC
		10A-E04-T135-P3-BS	10A-E04-T135-P3-BS-CDM		ebb	3/25/2010	SSC, DOC, POC
17.5*	P2	10A-E02-T175-P2-AS	10A-E02-T175-P2-AS-CDM	MS **	NA	3/24/2010	SSC, DOC, POC
			10A-E02-T175-P2-AS-X	Duplicate ***	NA	3/24/2010	SSC, DOC, POC
		10A-E02-T175-P2-BS	10A-E02-T175-P2-BS-CDM		NA	3/24/2010	SSC, DOC, POC

CPG - Cooperating Parties Group

ID - identification

QC - quality control

SSC- suspended solids concentration

DOC - dissolved organic carbon

POC - particulate organic carbon

MS - matrix spike

NA - not applicable; location above head of tide

- * location above Dundee Dam
- ** MS only for DOC analysis
- *** field duplicate sample of CDM split sample 10A-E02-T175-P2-AS-CDM denoted with the prefix "X"

CPG samples and CDM split samples are identified by Program-Event-Transect-Station-Depth-Type; split samples are followed by the prefix "CDM" Where:

Program - Two-digit year plus "A" identifying the Spring 2010 Passaic River sampling program

Event - "E" plus two digit sequence number for sampling event

Transect - "T" plus three-digit representation of river miles by tenths. For example, T042 indicates river mile 4.2

Station - "P" plus single-digit sequence for position along transect moving from left bank. For example, "P2" for second location.

Depth - Single character sequence letter for depth interval. "A" for depth interval nearest river surface (i.e., three feet below

surface); "B" for intervals of increasing depth (i.e., three feet above river bottom)

Type - Single character for sample type: "S' for normal sample

Attachment 1 Photographs of Physical Water Column Monitoring Activities



Photo 1: Deploying CTD/OBS meter at RM 1.4



Photo 2: CTD/OBS buoy at RM 4.2



Photo 3. RM 6.7



Photo 4. CTD/OBS buoy at RM 10.2

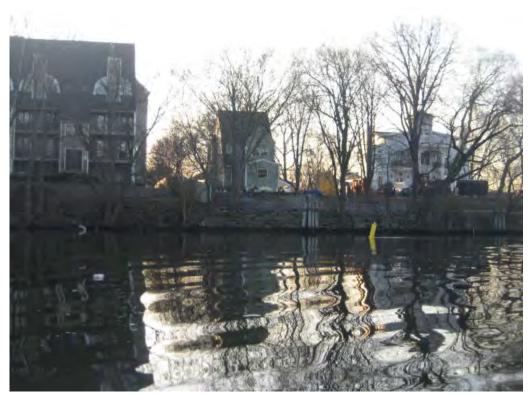


Photo 5. CTD/OBS buoy at RM 13.5



Photo 6. CTD/OBS buoy at RM 17.5 above Dundee Dam



Photo 7. CTD/OBS/ADCP arrays and CTD/OBS buoys prior to deployment



Photo 8. OSI vessel used to deploy instruments at river locations below Dundee Dam



Photo 9. AECOM collecting sample 10A-E01-T014-P3BS at RM 1.4



Photo 10. OSI vessel used to deploy instruments at RM 17.5 above Dundee Dam

Attachment 2 Copies of Oversight Field Logbook Notes

Location FOSSQIC RIVER Date 3-24-10

Project / Client POSSQIC RIVER Location Fassaic River Date 3-24-10 Project/Cirent 1 myer Passaic River A. Viahowse A. Rapowsii Medher 3-46+00 Farenheit wind Objective. Oversight of Sample Collection on Rossail Riversample and duplicate from 3 above river 6 et 3.5 sections easting 597 207.6 Northing 734 289.55 Simple id 10A-EOI-T135-P3-B5, 110A-EOI-T135-13-07 1006 sample collected from 3 0850 JR arrive: onsite and meets with 50 of CM. below water Surface. 6910 JR boards boat Dastin, 597212,25 Northing 734203.81 Personnel JR of CDM Johnhalker

ABJOYNO DUSTIN Kach of OSI water death 16.5 Simple is 10A-EOI-TIB 5-P3+A5 1020 boot arrive's back at CPG facility dock. 0915 JW holds health and 1030 JR deports 54e, Stely briefing, 0920 A52410 OSI deployS YSI demand current meter. 0930 toes 5 deployed. 0935 both's back at dock. 0940 Steve Bodalof OSI departs boat in order to meet with DOST employer on board, Boat is heading toward Sampling location (Mike Lincolow) Alex Comm collects 4. Man To receive to

Location Lawer Possaic Kiver Date 3-25-10 Project/Client Liner Perint River 5+up April PPD Molified Level D Water! 40° farenheit rossimel JR of SDM Objective! Collection of niver Mile 1.4 and 24. B Spit Samoles, 060 JR arrives onsite - COI tells JR to wait anshere CINTIL LOUIS Borger Peprosime Collect's their samples morder to board boat JR will hait at current recotion Passaic Kiver Yacht Club) 0620 Vessel# 1 RU Ready I JOPACTS LPRYC Vessel + 2 /KValde 0730 TR boards boat Jon LAJOIKER (AECOM) JEFF Motto Right Collenbach COSILON board. Boot heading to River marker 0740 FUSTRAMENTONA OLONGE P

Location Lower Passaic Rivate 3-25-10. Project/Client Ower Passic River Study dres AMORS FIRMS River mile Diver mile ILL 11 19can Piver 18 Boxt amués of £.23-25-10 0755 RB Said he would let Awate Fine are in Greverch time zone 1154 10A-EO3/TO14-PI-BF 120710A - E03-T014-P2-BS 120810 A-E03-t014-82-15 0815 Rump dropped Pos P 1219 JOA-E03-T014-P3-BS com 12 # 10/1 Eas-Toy-P3 & coms 1222 10A-E03+TOH-P3-AS Location solit sampled comid 17 OA-E03-TO14-P3-AS-CDM # 1.63-29-10 DEDANS lab sacosom

Location Lower Passaic Date 3-25-10 Location Lower Passaic Date 3-25-10 Project/Client Lower Passaic River Study Area Project / Client Lower Passaic River Study Area Vallerst Boxt headed to 43 AE Com Collects 10A E03 - TO42 river mile marker 10A-E03-T042-PI-BS sample 83-AS 65 0925 Boot deports 4.2 mile commich time CDM is accepting 12549 Split sample from this 0930 Boot amues back at location, cpm: d # 10A-E03-T042-LPRYd. CDM WILL have PI-BS. CDM cactests Sample to wait for title change in 1256 10A-E03-T042-Pj-A5 sample Order to continue work time * AE com will be Collecting = 5 1230 Vessel takes off with a duplicate, COM Will be Louis Berger Representative. from this location JR will wait at Yatht club Since there is not extra room on boat 104-E03-T042-P1-AT Inspections AR AE Com's duplicate of Vesse 1#2 Equipment safety check 10A-E03-TO42-PI-AS was performed this morning by Sample, J. K 3-25-10 The Hotal depth of water was 17 le 3-25-10 Tooks and power equipment = no equipment is damaged or but of service 1306 AE COM Collects JR locates all required emergency Cquipment - Fire extinguisher, Spill 15+ 10A-E03-T042-12-1351 1306 AE COM Coilects 10 A-E03-T042first aid and exercish. 33/ USSSE # 2 amive 5 back AE Con Coilects 10A-E03-T042on dock LB employee departs 1943 URSSEL #12 head & out to àn 3-25-10 52510

/ 12	
Location <u>LONG 1955aic</u> Date 3-25~/0	Location Lower Passaic River Date 3-25-10, 13
Project/Client Lawer Passaic River Stady avec	Project/Client LOWER Passaria River Study Arms 3-215-10 Sample Sample of Cardinates & Split AE Com Sample in Time GAMIC N E
mile marker 1.4.	3-217-10 Sample Sample I and cardinates p
1355 Vesse arribes out mile marker_	NO IOA-FRZ-TOW-DING TIME DAME NO COLD WEST
A Land dove any la sol	NO DA-E03-TO14-PI-BS 1154 NO 691291,69 597782.82 13
1909 / hump is lowered into cive/	104-403-1014-72-135 1267 1 691244.42 2070 272 14
1411 Pump pulled up.	NO 10A-E03-T014-P2-A5 1201 6912-52-97697912,52 3 4e5 10A-E03-T014-P3-B5 219 691220.95 607620 107 13
1913 Robe/Pump burered 325-6	Yes 104-E03-T014-P3-B5 1219 G1220-95 50748, 07 13
Then gloves have been used for	Yes Ind English of the 1204 King I
each sample collected today. + cach bottle collected by AECOM	YE CA - 10-12-11-43 (1000 0+602306,67 555331,47 3)
has been scoled between can	NO 104-E03-T042-P1-AT125-1 692300.9 5889,34613 NO 104-E03-T042-P2-151306 NO 692382,5588229.916
and bottle with electric tape.	NO 10.4-E03 Tay2-12-451305 692387184 588239.07 3
1413 10A-E04-7014-P1-BS Sample time. 3:25.70	NOICA-E03-T042-P3-B5 137 612456.99 1589233673
17112 10A5604-014-11-AD cample time	NO 10A-E07-T0-12-P3A5 1321 692453.96 /588231.05 3
142210A-FOY-714-P2-B5 = 12 2 2mg	100 10 A-E04-014-PI-AS 1815 \ 3
142310A-E04-014-P2-A5 Simpletime 1-1430-10A-E04-014-P3-B5 - COM SOUB	19 19 A = E04-014-P2-B5 1822 25)
1430 10A-EO4-014-P3-B5 - COM Spirk	NO 10 A - EOU-014-P2- 45 1823 \\ YOU 10 A - EOU-014-P3-B5 1830 2 \\ 187
1433 IOA-ECH-D14-P3-A5 (According location)	VES 10 A - 1204-014 82 A5 1522 K3
1-1501-101-1042-11-A) / TIES 5: MB	15 10 A- Eat-00-0-15 1659 3/2 18
1503 LOA-EOY-TO42-PI-AT (AE Comdaplical)	no 10A-E04-042-PI-AT 1903 500 31
1511 10A-E04-T042-P2-B5 Sample time 2.12 3-25-10	NO 10A-E04-042-F2451911
2.2 3-25-10	SR 3-25-10

The state of the s

Location Love Passaic Riverate 3-25-10 Location Lower POSSIC River, Notate 3 25-10 Project/Client Lower Passaic River Study Area Project / Client LPRSA 222 30 Sample Summan Continued Sample Summary Continued From 19413 1513 10A-EO4-TO42-P2-AS Sample 2 AEComid time, Sill-10A-EULI-QUETAS 1913 NE 1517 10A-For TO42-P3-BS Sample time 10A-E04-042-13-185 HM 1520 IGA-ECY-TO42-83-AS simple tim 1 1525 VESSEI # 2 head 5 back to LPRYC 1545 vessel #2 arrives at dock 1600 JR departs Site

THAT WAS LPR

on site

3/25/10

PWCM Quersight

27:45 - Arrive at Passaic
Yacht Club. OSI is present
and begins loading equipment
into bont.
Weather - Over-cast light
wind - 52°F
PPE -> Level D Madified
08:00 -> 50 suits up in

mustang and heads giver to

Doill of Speck with Sham
Budnex of CDM on specifics
of today's activities. S.B.
would like to know the
depths of each boring
that will be deployed and the
GPS coordinates. The GPS
model and ecordinate system
would also be helpful to
write down as well.
DBILD of Starts to min
08120 of Deff Missik

08:30 - 00I departs

LPR

2/22/10

Lower Passic River PWCW Oversight

Passaic Yocht Club DE 40 - Arrive at RMIH. SO confirms with Steve Bodak from OSI that they are using a GPS Trimble 4000 and following the New Jersey State Plane North American Ordum 1983 coordinate system. 08:48 - OST begins to lower bottom - mounted meeting at RM 1.4. Coordinates are Northing - 691 228.80 2025 Enstiny 597991.01 Depth to bottom - 22' 09:00 - Begin deployment of top-buck magring. 151 is medsuring 3' below water surface. Coordinates-Northing -5691 194. 78 Ensting -2597985.13 Please refer to Picture

3/22/10

100anon LPR 191ae 3/22/10 Hayer Miller Lower Passaic Pilver PWCM Oversight Lon For photos taken through hout event 09:11 - After deploy inn both surface and bettor moorings it, BM 1 4; 051 drives bent back to Passaic Yacht Club to retreive next set of marings for RM 4.2 09:20 - Steve Bodate and Dustin trach assemble moorings on bont. Bottemmounted mooring contains a accountic deppler, current profiler (ADCP) and YSI model # 6900 to measure the conductivity, temperature, pH, DO, + turbidity! Surface mooring strictly has a YSI hanging 3' feet below a buy 10:03 -> Depart from Passaic Vactor Club advance to BM 4,2

Continuous Land Residential 101 3/23/10 Make Mark, Lower Passaic River PWCM Quesight acsoss from new soccer . Andium. 10:25 so Drive pret RM 4.2 to Bridge St. Bridge in dountour Neumst to exect clearance for 10:35 - Approach RM 4.2 to depley moorings. Bettom-mounted moorth is deployed. Condinatorate Northing - 692307 24 Easting - 588243.00 Total Depth = 21.8' 10:43 - Sortine morin ore: Coordinges Northin = 692308.50 Eastin -0 288922 82 10:51 -> OSI begins having haranty Tu ting and all urbidity metal 0:56 to 0511 lowers CID

LPR 3/20/10
Lower Possaic Piver
PWCM Oversight

unit to take a profile of water column. Total depth is 18.51 -11:02 - J.M. From AECOM totres sample from a depth of 15.5' & RM 4.2. Location/ Sample range = 10A-EOI-TO42-PI-BS 11:09-2 Spilling somple is taken at = 10A-EOI-TO42-PI-AS Depth is 3'. Note: Surface unter temperatur is 50°F and AECOM is only collection samples to be and red for suspended solids concentration. Coordinates: 10A-EOI-TO42-PI-B2 worth: ~ = 612305.00 Enstin = 588844.70 -800 Dept/ 5 15.5' Coordinates: 10A-EOI-TO42-PI-15 Dotting - 692307.92 Easting - 588 241.60 Depth 5 31 11:da - Rench RM 1.4

LPR 3122/10 to cooking Lower Passaic River PWCM Oversight and the profile of water COLUMN WY CTD -30 11:30 - J.M. of AECOM totas kettern sample at lecation 10A-EO1-4014-P3-BD Northing -> 691236.23 Eastin - 597989.47 Depth - 19' - 500 11:32 - AECOM collects top sample of location 10A-1=01-17014-P3-AS Worthing - 6912 33.88 Eastin - 597991.00 11:50 - Arrive broke of 11:58 - J.M. collects field blank using DI water. Nome is 10A-E01-TO14-P3-XR 12:15 - Depart Passaic Youth Club

Modern LPR 183/23/10
Modern Lower Passaic River
PWCM Oversight

27:05 - Arrive of Passaic Yacht Club, OSI is on site. Weather - Over-cost w/ moderate wind ~52°F PPE -> Level D Modified OSI Crew - Dustin Krich Steven Bodat 97:10 5 051 carries equipment anto beat. DZ: 20 5 081 begins setting up top and bottom moorings for today's locations. 07:93 40 Jeff Misuik from AECOM orrives on site and gives health a satety briefing 57:42 - Depart from Yacht Club to alvance to RM 6.7 08:05- Arrive of RM 6.7 and OSI coordinates with GPS to arrive is exact location 08:10 - OSI lowers bottommounted unit to river bottom. Northing => 702834.80 Ensting - 586142.48

Puch Oversight

Depth - 15' - 30-5 08:14- OSI begins setting up top mooring and deplays to within I foot from target location. Coordinates are Northing - 5 700 807. 23 Ensting -> 586 122.56 Depth -> 15' Note: River current was traveling between 2 to 3 08:37- Arrive of RM 10.2. OSI finishes puttion together bottom-mounted marin 09103 - Deploy bottom. mounted mooring of RM 10.2 Coordinates are) Northing -> 719 746. 20 Ending - 592106.37 Total Depth - 17' 09:05 & Deplay top morian (how we strated Northing = 719713.56

constitue Lower Pressaic River PWCM Oversight

Eastin = 592111.89 Total Depth = 17.0' 09:30-51 AECOM cellects sample from bottom at 10A- E01-T102-P1-BS Merthing => 719747.75 Enstiry - 592 111.20 Sample Depth - 14.2' 09:32- AECOM collects location 10A-EOI-TEOZ-PI-15 Northing -> 719741.09 Eastin 25 592109.87 Somple Depth - 3' 09:35 s water column profit was token at RM10.2. 09:55 - Approach RM6.7 and begin setting up to collect samples and profile under column. AT RM G.7 10:05 - Collect potton amble at location 10A-E01-TOG7-P3-05 Northing 702832.64 8-0.4 3/23/10

LPR 3/23/10

Lower Pissnic Priver PWCM Oversight

Eastin - 586135.03 Bample Depth - 10.5' 10:04 - AECOM collects top sample at location 10A-EQ1-TOG7-P3-AS Northin - > 702831.97 Eastin 5 566141.03 Semple Depth, 531 10:05 - Head back ato Passaic Ynort Club * Suo field blanks will be collected today. AECOM collected D samples for suspended solid concentration analysis at each, of the River Mile Locations In total, AECOM collected 4 bottles for SSC andysis. 10:10 -> 051 pocks op equipment tim ent votality 10:15-5 50 deports the en route to #dism une hause to label bottlewere for Wednesday and

LPR 3/23/10
Holouthan Lower Passaic River
PWCM Quersight

Thursday samplin activities.

After speaking by Jeff

Misvik of AECOM, SO mil

and Jeff Rotowski of

CDM will meet AECOM

at CPG field facility in

East Rutherford. Jeff Rotowski

will deploy instrumentation

at RM 13.5 while SO

will deploy instrumentation

and perform transect showe

Dunder Dom:

3 ONE

Englishmen LPR 3/24/10
Englishmen Lower Passaic River
DWCM Quersight

6 29vino 02 @ 08:80 CPG Field Facility. AECOM crew present includes: Jest Missik (FTL) Rei - Hua Warn (Field member) John walter (field member) 08:45 - Spent w/ George Molnor on adjuities for 08/45-5 Jest Rotowski arrives of CPG field facility and signs in. 09100 & Jest Rakowski suits up and heads que to bord where John Walker from AECOM + QSI will be deploying instrumentation at RM13.5 to exote 08 a 01190 CPG field facility and units for 05/1 to vrive

with second bant

laurch above Dunder

3124110

8-018 3123/10

LORATION LPR 1704/10

PWCM Oversight

10:05 - 051 arrives with second bent. JM tells OSI to drive up to lound and AECOM/CDM will meet shortly. 10:20-5 J.M. From AECOM + 80 leave CPG Field facility and drive best launch above dan. Note: Bant launch is directly across from Elmwood Park Memorial Middle/ High School 10:30 - Attive at launch. 081 is busy retling boot ready SO snows a few protores of OSI but. Correct on Pressic is strong. 11:32 - Speak with Jeff Rotowsti of CDM. JR informs SO that he has finished oversight on deployment of RM 13.5, 0511 is still getting boot ready along with assembling 400 and

Project/Client Lower Passaic River

PWCM Oversight

moorings. 12:10-5 Board OSI to dive Missile of AECOM, Dustin trach of OSI, o Jax DeLoresco ct 051 12:15 - OSI begins colibertin ADCP before heading out to PM 17.5. * Health o Sweety Meeting is canducted. All bodies on from are wearing life preserver. 12:49 - Odibition of ADCP is complete. 12:50 & Beain heiring down river to reach destination. 12:56 5 051 must disassemble to (meters yeller - A-frame (puller system) at front of boot due to low clearance of overnous. 13:45 - Deploy surface mooring at RM 17,5,74:5 directly north of dan

3/24/10

Location LPR

1 1 Date 3/24/10

Proportation Lower Passaic River
PWCM Oversight

& Please note: Surface moving is deployed at 1 ocation Pa at RM 17.5 14:00 - OSI prepares to complete transects across river of 4 locations: P1, Pa, PB, & P4. CDM will collect split samples at P2 location. Dustin trach continues to locate GPS coordinates from previous quest. 14:15 0 0,51 profiles unter column at PI leadin at RM 17.5 new west share of river. Total depth is 7.8 14:23 - AECOM collector location 10A-E02-T175-P1-AS Collects 1-Lpoly for SBC and 3-250 21 Boly for POCI DOC

14:25-5 OSI positions vessel

to location P2 where AECOM

of CDM will collect samples

14:08 - 051 throws

ocauon LPR

174/C/8 view

PWCM Oversight

under to profile under column. Depth is 8.2" 14:33-0 Collect CDM split at location 10A-EDD-T175-PD-BS-CDM (06415) 4:37 sept cotteds split of location 10A-E03-T175-P2-A3-CDM. CDM collects diplicate and MS/MSD (56+16) 14:43 - OSI positions vessel to P3 Hocotion and takes a profile of under column. its 6.8% 14:47- AFCOM collects -coal-Act to estima 10A-E00-T175-13-AS for SSC and POCIDED 14:50 - OSI Cast CTD to profile water column Tatal Hepth is 6.5 14:53 SAECOM collects sample of location 10A-EDD, 7175-P4-AS for SSC m POCLDOC and 185 3/24/10

Tocalion LPR Duk 3/24/10 weget/man Lower Passaic River PWCM Oversight 15:00 - Mate way back to boot launch in Elmwood Park. 15:30 - Arrive at best launch and finish recording GPS coordinates -P1 Coordinate 35 Northing = 747325.10 Easting = 594434.15 DepH Pal Coordinate BS Northing = 747511.60 Eastin 2 594485.11 Depth PB Coordinate AS Northing - 747508,48 Enstiny - 594488.23 -SO ._ P3 Coordinate A5 Northing => 747680.41 Easting = 594632.01 505 P4 Coordinte Northing 5747745.91 -505 Easting 574673 69 * Reser to next page to see EDM split samples 15 de 3124/10

PWCM Oversight

COM samples are:

10 A-E02-T175-P2-A5-CDM

10 A-E02-T175-P2-A5-X

10 A-E02-T175-P2-B5-CDM

26:30 - Arrive back at

CDM wavehouse in Edison.

Mel taberle arrives to

assist wy pacting and

provide chains.

DESA building

4# 209 and walts for

cooler into refrigerator.

O6:15-2 SO en taute

back to hame.

3/24/10

28 C 8 1 3/24/10

100ation LPR Date 3/25/10

injuritient Lower Possaic River PWCM Quesight

06:25 2 50 arives et CPG field facility 06:35-5 Mike Houser, gives harth a sofety meeting od move to RM 13.5 to perform transect and collect Samples.

Veather or Clear stries , 40.F PPE- Level D Modified -30) 26150 s OSI begins performing transed with ADCID - 5000 07:00 - 051 toles profile af water column 7010 Depth is 1231 -30 07:06 & CDM collects split sample at location 10 A - E03 - T135 - P3 - BS-CDM

07:09 - CDM collects split sample at location LOA-E03-T135-P3-AS-CDA-50 02:15 = OSI totas profile of water column. 0/64 3/25/10

10 mars LPR 10 mars 3/25/10

Majora / Court Passaic River PWCM Oversight

07:17 - AECOM collects location 10A-E03-T135-P2 -BS --07:19 - AECOM collects samples of location 10A-E03-T135-P2-AS 07:08 - OSI tores samples of location 10A-EQ3-T135'-PI-BS. & Note: AECOM collects profile of unter column before AECOM collects sample -500 07:31- AECOM collects sample at location 10A-E03-T135-P1-AS 07135-5 Speak wy Mel troberte of CDM and notify her of time on somples. QSI proceeds to next location. -6.01 M.A to 07:47-5 Approach RM 10.2 It is implified to note that top-moring busy

is missing. Ost suggested

Mayor Man Lower Passaic River PWCM Quersight

that know may have been transted down river by a large object will continue to run transect and collect sampler: D8:06 - AECOM & CDM collects samples at location 10 A-E03-T100-P1-BS-CDM 28102 - OSI takes profile at water column. Tatis Denil is 11.21 filds spoins was ablig sample of A ECOM at location 10A-1E03-T102-P1-A5-CDM Sample depth is 3' 0810 - OSI moves to Palocation in middle of river. to Gilas Mas : CDM split is side of Rollstond Presnic River. COM split & PM to sols town in 21 6.01 rives.

23.00 3/25/10

Lorsation LPR

1951 3/25/ (P

moder to their Lower Passage River PWCM Quersight

D8:18-5 AECOM collects SSC sample of 10A-E03-T100-P2-185 (TD= 17.1') 08/19 - AECOM colleds SSC sample of 10A-E03-08:27- AECOM collects SSC Samples & POCIDOC somples of location 10A-E03-T162-P3-BS --08:29 - AECOM collects samples at location 10A-E03+ T1d2-P3-AS — Total Depth = (10.11) 08130 - OSI heads down to RM 6.7 -Persons on Board include: Seas O'Hare (CDM) Mite Houser CAECON) Dustin tach (OSI) Jax DeLorenzo (051)

08:54- Arrive of PM

6.7. Current is strong

and his pulled propriately

Project/Client Lower Passaic River PWCM Oversight

buon almost completely under water.

ogion = 051 lowers ADCP to edge of bont and begins to the transed survey across

29:13-5051 lowers CTD
into water to profile water
column. Total Depth is 12.8'
29:20 - AECOM collects
samples at location 10AE03-T067-P1-BS. Total
Depth is 12.8'
29:22 - AECOM collects
samples at location 10A-E03T067-P1-AS
29:24-5051 costs CTD unit
at P2 location to profile
water column. Total Depth
is 15.2'

09:27 - AECOM collection SSC comple at location 10A-E03-T067-P2-BS 09:28 - DAECOM collects Lecadon LPR

1 to 3/25/10

Proposition Lower Pressic River
PWCM Oversight

SSC sample at location
19A-E03-T067-P2-AS

29:30-5 Move to P3

location at RM 6.7 and
cost CTD to profile water
column Total Depth is

14.2

29:34 -> CDM collects split
sample at location 10A-E031067-P3-BS-CDM
29:36-> CDM collects split
sample at location 10A-E031067-P3-AS-CDM
29:40-2051 directs vessel
back to CPG Field Facility
29:55 >> Vessel runs out of
2003 and have to park
boot an side of river
114 mile north of Route
3 Bridge. Dustin tack
goes to gos station and
picks up gos

CPG field facility, OSI

3/25/10

10:40 - Arcive

3/25/10

Puch Oversight

says that ebb fide is wound 12:00 PM. We will be leaving for second round of transeds/somples of 13:30. 10:50 - Transfer samples to Mel troberle of CDM to ship back to Edison Worehouse 11:00 - Arrive at CPG Facility and, sign in 12:43 & Head back out on boot to collect samples and transacts during about the OSI lowers ADCP into water and begins to perform transact from one side to other. 17:01 -> OSI lowers CTD of P1 to profile water column. Total depth is 7.7 17:04 - AECOM collects sample of lacation 10A-E04-7 135, P1-BS, AECOM 15 collection a duplicate at this location named 10A-EOH-

English LPR

01/25/10

PWCM Oversight

T135-P1-BT 13:06 - AECOM collects sumples at 10A-E04-T135-P1-A5 13: 6 - AECOM collects sa mple at 10A-E04-T135-P2-B5 for suspended solids. * Note: CTD cost before collection to capture profile of water calumn. Total depth is 12.1'. 13:15 DIAECOM collects sample at location 10A-EO4-T135-12-AS. 13:17-9 OSI lowers CTD to profile unter column of P3! Total Depth is 15.9' 13:22-0 CDM collects split sample at 10A-EO4-TIBS-13:25- CDM collects solit sample of 10A-EQ4-T135-P3-AS 13:30 - Mitre Houser makes

quick stop of CPG Facility

to drop off hota to Rei (Somple

3/25/10

Fountier _ LPR

) Data 20/25((P

Proport/Client Lower Possaic River
_ PWCM Quersight

Morarer) (13:35 - OSI novigades versel downstream to RM 10.2. Note. · Surface Mooring 15 missing. It has either washed out of , box or is submerged. 13:50 - Arrive de RM10, 2 and find Missing surface morning. Moorian is - 9 Weelow river surface and will need to be picted up since it is count on a large abject 30 13:55 - Deploy ADCP and begin trassed of RM 10.2 1462 - Speak w/ Gorge Molnor of COM on states. 114:11 - OSI cost CTD to profile water column. Total benth is 15.1' 14:16 - CDM collects Split sample at location 10A-1E04-T198-P1-BS -----14:19 - COM collects split sample at location loa-East 100 PLAS 8 CS 110 3/25/10

tention LPP 3/25/10

replace in Lower Passaic River

PWCM Oversight

14:13 - OSI casts CTD of Pa Total Depth is 16' - 30= 7. Note: AECOM collected deplicate of 10A-EO4-TI35-M-AT 14:27 - SAECOM CONJecto somples of 10A-EQ4-T135-Pa-BS and duplicate at 10A-ECH-T135-P2-BT-14:28 - AECOM collects sample at 10A-E04-T135-P2-AS 14:31-20 001 courts CTD to profile water column it P3 location. Tatal depthis 1835 S AECOM collects samples at 10A-E04-T135-P3-BS! 14:37-0 AECOM collects samples at 10A-E04-T135-PB-LAS 14:40 - Finish sampling/ transects of RM 10.2. OSI proceeds to RM 6.7 15:03 -> Arrive at 12M6.7 28-05/10 3/05/10

LPR

3/25/10

PWCM Oversight

and observe surface bury is leading and is on its side.

Please refer to picture log.

15:05-5 Deploy ADCR

d RM 6.7 and begin performing

transect.
15:18 = 051 costs CTD
to profile under column
Total Depth is 10'

15:21 - ARECOM collects location 10 A-E04-T067-P1-BS

1 20 AECOM collects location

10 A-EO4-T067-P1-AS

15:25 - OSI costs CTD to

profile under column. Depth is

17' Token at location PD 15:28 - AECOM collects

sample at 10A-EQ4-T067-P2-BS

15:29 - AECOM eollects sample

at 10A-EQ4-TOGT-P2-AS

15:30 - OSI costs CTD

de profile under colon. Total depth is 16.21

15:36 - CDM collects split

-8-0'6 3125/10

Losaiion LPR

3/25/10

Proposition Lower Passaic River

sample of 10A- E04- T067-P3-BS-CDM

15:38 - CDM collects split

sample at location 10A-EQU-

15:40 & Pull up CTP / ARCP

and alymce vessel to CDG

Facility. * Note: OSI

attaches a boot busy to

surface marrian to make

more unsible &

16:05-5 Stop by RM 10.2

and observe suffice mooring

is standing half-war up.

251 is Monpting to detomne

if book is caught on anything

Buox s untanylat. -

* OSI will need to service

Duoys at RM 6.7 and

RM 10,2 to ensure better

Plotation. In additions

OS, will add on addition?

hove Dundee Dan.

250 H 3125/10

Location LPR Date 3/25/10 Project/Charle Lower Passaic River PWCM Oversight 16:40 - Arrive back of CPG Facility -16:41-5 AECOM collects field blank IOA- EO4-TOGT-P3-AR 16:45 -> SO goes into CPG field facility to sign out and then departs back to Edison warehouse. SQ will meet with Mel troberle of CDM to pack samples into coolers. 17:45 - Arrive of CDM warehouse in Edison w/ Mel taberle Somples we prechad w/ ice chais & reservent 18:30 - SO drives compler to DESA building # 509 and places into bulk-in retigentor 18:45 = SQ en route back hame.

-8.0 6 3195/10

London LPR 11.126/18 1.1.11 MARGARIA LOWER Passaic Biver PWCM Oversight Split somples collected ex CDM on 1400 25, 2010 include. 10A-E03-TOGT-P3-AS-CDY 10A - E03-TOGT-P3-BS-CDM 10A-EOY-TOET-P3-15-CDM 10 A-E04-T067-P3-BS-c0:4 19A-E03-T102-P1-AS-COM 10 A - EQ3 - T103 - P1-BS-COM 10A-FO4-T103-P1-AS-CPM 10A-E04-T10D-P1-BS-CDM 10A-E03-T135-PR-AS-COM 10A-E03-T135P3-BS-CDM 10A - FOU-TIBS - P3-AS-COM 10A-EO4-T135-P3-B5-CDM * All simpling locations isted have were and sed tor, suspended solid ance ntation, POC & DOC

10- 3/25/10

Attachment 3 Field Change Request Form

Lower Passaic River Restoration Project OU3- RI/FS Oversight Passaic River, NJ

Field Change Request

Date: March 31, 2010

Request No.: 2

FCR Title: Additional Surface Water Split Sample above Dundee Dam

Description: CDM's Final QAPP for PWCM oversight activities indicated that the CPG would collect only one sample from three feet below river surface from the location collocated with *in-situ* instruments above Dundee Dam as only a buoy-mounted OBS meter is deployed. Thus, CDM proposed one split sample be collected at this location during each event over the course of the study. During March 2010 field activities, the CPG collected samples for SSC, DOC, and POC analysis at this location from three feet below river surface and three feet above river bottom. In addition to the surface water split sample collected three feet below river surface, CDM decided to collect a split sample from the location three feet above river bottom. This resulted in a total of two splits samples being collected that corresponded to the *in-situ* instrumentation instead of one as stated in the oversight QAPP.

Reason for Deviation: Increasing the number of split samples collected above Dundee Dam will allow for greater statistical comparison with the parent samples collected by the CPG to determine if a bias exists in the data produced by the CPG.

Recommended/Modification: During each field event, CDM will collect an additional surface water split sample for SSC, DOC, and POC analysis from three feet above river at the location collocated with the buoy-mounted OBS meter above Dundee Dam.

Impact on Data Quality Objectives: The collection of these additional samples will allow additional statistical data analysis on the samples collected above Dundee Dam improving the project data quality objectives.

USACE Contract No.: W912DQ-08-D-0018

Task Order No.: 014

Signatures

George Molnar, CDM Field Team Leader

Sharon Budney, CDM Deputy Task Order Manager

CC:

Stephanic Vaughn, EPA Remedial Project Manager Elizabeth Buckrucker, USACE Project Manager Bill Sy, EPA

Frank Tsang, CDM Task Order Manager Jeniffer Oxford, CDM Quality Assurance Coordinator CDM Oversight staff

Attachment 4 Copies of Signed Chain of Custodies



Reference Case:		D
Client No:	1 .	

	,				Ciletti 140.		17
Region: Project Code:	2	Date Shipped: Carrier Name:	3/24/2010 Hand Courier	Chain of Custody Re	ecord	Sampler Signature:	W424/101500
Account Code:	•	Airbill:	Hand Godner	Relinquished By	(Date / Time)	Received By	(Date / Time)
CERCLIS ID: Spill ID:	NJD980528996 0296	Shipped to:	DESA Laboraties/EPA	$\frac{1}{2}$ Milh $\frac{3}{2}$	124/10/1500		
Site Name/State:	Lower Passaic River Restoration Project/Nu		2890 Woodbridge Ave Bldg. 209	2			
Project Leader: Action:	George Molnar Combined RI/FS		Edison NJ 08837 (732) 906-6886	3			
Sampling Co:	CDM			4			

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	QC Type
	Surface Water/ Melissa Koberle	L/G	D/POCSS0.7 (21), SS 1.5 um (21)	(Ice Only) (3)	10A-E02-T175-P2-AS-CD M	S: 3/24/2010 14:37	Lab QC
	Surface Water/ Melissa Koberle	L/G	D/POCSS0.7 (21), SS 1.5 um (21)	100 (Ice Only) (2)	10A-E02-T175-P2-AS-X	S: 3/24/2010 14:37	Field Duplicate
	Surface Water/ Melissa Koberle	L/G	D/POCSS0.7 (21). SS 1.5 um (21)	(Ice Only) (2)	10A-E02-T175-P2-BS-CD M	S: 3/24/2010 14:33	. <u>.</u>

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: 10A-E02-T175-P2-AS-C	Additional Sampler Signature(s):	Chain of Custody Seal Numbor:				
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?				
D/POCSS0.7 = DOC (5310B) POC (440) Suspended Solid, SS 1.5 um = Suspended Solids (ASTM 3977-97) (1.5 u							

TR Number: 2-043013577-032410-0001

€FP Δ	USEPA Contract Laboratory Program Generic Chain of Custody
	Generic Chain of Custody

Reference Case:	D
Client No:	

					0		- -
Region: Project Code:	2	Date Shipped: Carrier Name:	3/25/2010 Hand Courier	Chain of Custody Re	ecord	Sampler Signature:	1/2 ASTES
Account Code: CERCLIS ID: Spill ID: Site Name/State: Project Leader: Action:	NJD980528996 0296 Lower Passaic River Restoration Project/Nu George Molnar Combined RI/FS	Airbill: Shipped to:	DESA Laboraties/EPA 2890 Woodbridge Ave Bldg. 209 Edison NJ 08837 (732) 906-6886	Relinquished By // 1 2 2 3	(Date / Time)	Received By	(Date / Time)
Sampling Co:	CDM CDM			4			<u>,</u>

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	QC Type
10A-E04-T01 4-P3-AS-C∫\	Surface Water/ Melissa Koberle	L/G	D/POCSS0.7 (21), SS 1.5 um (21)	(Ice Only) (2)	10A-E04-T014-P3-AS-0 M	CDS: 3/25/2010 14:33	
10A-E04-T01 4-P3-BS-CDM	Surface Water/ Melissa Koberle	L/G	D/POCSS0.7 (21), SS 1.5 um (21)	(Ice Only) (2)	10A-E04-T014-P3-BS-6 M	CDS: 3/25/2010 14:30	
10A-E04-T04 2-P1-AS-Cり八	Surface Water/ Melissa Koberle	L/G	D/POCSS0.7 (21), SS 1.5 um (21)	(Ice Only) (2)	10A-E04-T042-P1-AS-0 M	CDS: 3/25/2010 15:01	
10A-E04-T04 2-P1-BS-CDM	Surface Water/ Melissa Koberle	L/G	D/POCSS0.7 (21), SS 1.5 um (21)	(Ice Only) (2)	10A-E04-T042-P1-BS-0 M	CDS: 3/25/2010 14:59	
10A-E04-T13 5-P3-AS-C ►M	Surface Water/ Melissa Koberle	L/G	D/POCSS0.7 (21), SS 1.5 um (21)	(Ice Only) (2)	10A-E04-T135-P3-AS-0 M	CDS: 3/25/2010 13:25	
mille	5/25/10					Milh 3/25710	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?
D/POCSS0.7 = DOC (5)	310B) POC (440) Suspended Solid, SS 1.5 um = Suspen	ded Solids (ASTM 3977-97) (1.5 u	1

TR Number: 2-043013577-032510-0004

Generic Chain of Custody

Reference Case:		D
Client No:	•	

					Olioni 140,		
Region:	2	Date Shipped:	3/25/2010	Chain of Custody Red	ord	Sampler h. n	, 21 /
Project Code:		Carrier Name:	Hand Courier			Signature:	(3/25/10/1600
Account Code:	,	Airbill:	riana souriei	Relinquished By	(Date / Time)	Received By	(Date / Time)
CERCLIS ID:	NJD980528996	Shipped to:	DESA Laboraties/EPA	15 M 1 / 2/2-	1, 1100		
Spill ID:	0296	ompped to:	2890 Woodbridge Ave	111111111111111111111111111111111111111	110 16	-	
Site Name/State:	Lower Passaic River Restoration Project/Nu		Bldg. 209	2			
Project Leader:	George Molnar		Edison NJ 08837	3	•••		
Action:	Combined RI/FS		(732) 906-6886				
Sampling Co:	CDM			4			

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	QC Type
10A-E04-T06 7-P3-AS-C \ M	Surface Water/ Melissa Koberle	L/G	D/POCSS0.7 (21), SS 1.5 um (21)	(ice Only) (2)	10A-E04-T067-P3-AS-CDS M	3: 3/25/2010 15:38	
10A-E04-T06 7-P3-BS-C\)://	Surface Water/ Melissa Koberle	L/G	D/POCSS0.7 (21), SS 1.5 um (21)	(Ice Only) (2)	10A-E04-T067-P3-BS-CDS M	5: 3/25/2010 15:36	
10A-E04-T10 2-P1-AS-CDM	Surface Water/ Melissa Koberle	L/G	D/POCSS0.7 (21), SS 1.5 um (21)	(Ice Only) (2)	10A-E04-T102-P1-AS-CDS M	5: 3/25/2010 14:19	
10A-E04-T10 2-P1-BS-С\) М	Surface Water/ Melissa Koberle	L/G	D/POCSS0.7 (21), SS 1.5 um (21)	(Ice Only) (2)	10A-E04-T102-P1-BS-CDS M	5: 3/25/2010 14:16	
10A-E04-T13 5-P3-BS-CD:M	Surface Water/ Melissa Koberle	L/G	D/POCSS0.7 (21), SS 1.5 um (21)	(Ice Only) (2)	10A-E04-T135-P3-BS-CDS M	5: 3/25/2010 13:22	
Mile 3/	25/10				n	dh 3/25/10	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C Grab = G	Object to 100
, ,	(5310B) POC (440) Suspended Solid, SS 1.5 um = Süsper	30	Shipment Iced?



	Reference Ca	R	
ody Re	cord	Sampler Signature: /////	3/25/cc x
	(Date / Time)	Received By	(Date / Time)
925/	01220		

								/
	Region:	2	Date Shipped:	3/25/2010	Chain of Custody Re	cord	Sampler Signature:	3/25/65
	Project Code:		Carrier Name:	Hand Courier	1-11-11-1	(5	, may	1 12
	Account Code:		Airbill:		Relinquished By/	(Date / Time)	Received By	(Date / Time)
	CERCLIS ID:	NJD980528996	Shipped to:	DESA Laboraties/EPA	1-Mille 92-1	10 1220		
ı	Spill ID:	0296		2890 Woodbridge Ave	1100 100 100 1	1010		
	Site Name/State:	Lower Passaic River Restoration Project/Nu		Bldg. 209	2			
	Project Leader:	George Molnar		Edison NJ 08837 (732) 906-6886	3			
	Action:	Combined RI/FS		(732) 900-0000			<u> </u>	
	Sampling Co:	CDM			4			

				<u> </u>			
SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	QC Type
	Surface Water/ Melissa Koberle	L/G	D/POCSS0.7 (21), SS 1.5 um (21)	(Ice Only) (2)	10A-E03-T014-P3-A\$ M	S-CDS. 3/25/2010 8:22	
10А-Е03-Т01 4-Р3-ВS-С р Д	Surface Water/ Melissa Koberle	L/G	D/POCSS0.7 (21). SS 1.5 um (21)	(Ice Only) (2)	10A-E03-T014-P3-B M	S-CDS: 3/25/2010 8:19	
10A-E03-T04 2-P1-AS-C <i>D/</i> M	Surface Water/ Melissa Koberle	L/G	D/POCSS0.7 (21), SS 1.5 um (21)	(Ice Only) (2)	10A-E03-T042-P1-A M	S-CDS: 3/25/2010 8:56	
10A-E03-T04 2-P1-BS-Cറ്റ്	Surface Water/ Melissa Koberle	L/G	D/POCSS0.7 (21), SS 1.5 um (21)	(ice Only) (2)	10A-E03-T042-P1-B M	S-CDS: 3/25/2010 8:54	
10A-E03-T13 5-P3-AS-C D ∕ √	Surface Water/ Melissa Koberle	L/G	D/POCSS0.7 (21), SS 1.5 um (21)	(Ice Only) (2)	10A-E03-T135-P3-A M	S-CDS: 3/25/2010 7:09	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:					
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?					
D/POCSS0.7 = DOC (5	D/POCSS0.7 = DOC (5310B) POC (440) Suspended Solid, SS 1.5 um = Suspended Solids (ASTM 3977-97) (1.5 u							

TR Number: 2-043013577-032510-0002

EPA USEPA Contract Laboratory Program Generic Chain of Custody

Reference Case:	D
Client No:	

				Sheric 140	A
Region:	2	Date Shipped:	3/25/2010	Chain of Custody Record	Sampler, 6 / 3/257
Project Code:		Carrier Name:	Hand Courier	, -	Signature: 10 12 10 200
Account Code:	•	Airbill:	riana adamar	Relinquished By (Date / Tim	ne) Received By (Date / Time)
CERCLIS ID:	NJD980528996	Shipped to:	DESA Laboraties/EPA	1 11/1/3/21 13	æ
Spill ID:	0296		2890 Woodbridge Ave	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Site Name/State:	Lower Passaic River Restoration Project/Nu		Bldg. 209	2	
Project Leader:	George Molnar		Edison NJ 08837 (732) 906-6886	3	
Action:	Combined RI/FS		(732) 900-0800		
Sampling Co:	CDM			4	

SAMPLE No.	MATRIX/ Sampler	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	QC Type
10A-E03-T06 7-Р3-AS-СЪЧ	Surface Water/ Melissa Koberle	L/G	D/POCSS0.7 (21), SS 1.5 um (21)	(Ice Only) (2)	10A-E03-T067-P3-AS-CDS M	3/25/2010 9:36	
10A-E03-T06 7-P3-BS-C0 _. М	Surface Water/ Melissa Koberle	L/G	D/POCSS0.7 (21), SS 1.5 um (21)	(Ice Only) (2)	10A-E03-T067-P3-BS-CDS M	9:34	
10A-E03-T10 2-P1-AS-C \ M	Surface Water/ Melissa Koberle	L/G	D/POCSS0.7 (21), SS 1.5 um (21)	(Ice Only) (2)	10A-E03-T102-P1-AS-CDS M	3/25/2010 8:08	
10A-E03-T10 2-P1-BS-C ഉം	Surface Water/ Melissa Koberle	L/G	D/POCSS0.7 (21), SS 1.5 um (21)	(ice Only) (2)	10A-E03-T102-P1-BS-CDS M	3/25/2010 8:06	
10A-E03-T13 5-P3-BS-CDM	Surface Water/ Melissa Koberle	L/G	D/POCSS0.7 (21), SS 1.5 um (21)	(Ice Only) (2)	10A-E03-T135-P3-BS-CDS M	3/25/2010 7:06	

There 3/25/10

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High		Shipment Iced?
D/POC\$\$0.7 = DOC (53	108) POC (440) Suspended Solid, SS 1.5 um = Suspende	d Solids (ASTM 3977-97) (1.5 u	

TR Number: 2-043013577-032510-0001